

PD 28-FEB-2002.
 XX
 PF 22-AUG-2001; 2001WO-US26246.
 XX
 PR 22-AUG-2000; 2000US-226996P.
 XX
 PA (DUPO) DU PONT DE NEMOURS & CO E R.
 XX
 Booth JR, Cahoon RE, Hitz WD, Kinney AJ, Yadau NS;
 PI
 XX
 DR 2002-269353/31.
 DR P-PSDB; AAE20554.
 XX
 PT New delta-9 fatty acid desaturase polypeptides and polynucleotides
 PT useful in creating transgenic plants having altered levels of mono-,
 PT poly- and unsaturated fatty acids and in increasing the unsaturation
 PT levels in cellular lipids.
 XX
 PS Example 9; Page 43; 77pp; English.
 XX
 CC The present invention relates to diverged delta-9 fatty acid desaturase
 CC proteins and polynucleotides encoding such proteins. The nucleic acid
 CC sequences may be used to increase the level of unsaturation in cellular
 CC lipids, including oil, in tissues when the enzyme is absent or rate-
 CC limiting, to isolate cDNAs and genes encoding homologous proteins from
 CC the same or other plant species and to create transgenic plants in which
 CC the polypeptides are present at higher or lower levels than normal or in
 CC cell types or developmental stages in which they are not normally found,
 CC thus altering the level of mono-, poly- and unsaturated fatty acids in
 CC those cells. They are useful as probes for genetic and physical gene
 CC mapping and as markers, e.g. restriction fragment length polymorphism
 CC (RFLP) markers. The peptides can be used to immunise animals to produce
 CC antibodies specific for the peptides and proteins. The present sequence
 CC is 1X ELVISLIVES complementary repeat region DNA found in plasmid pKS13
 CC This sequence is used in the exemplification of the invention for the
 CC suppression of Fad2 in soybean.
 XX
 Sequence 154 BP; 24 A; 53 C; 53 G; 24 T; 0 other;
 SQ Score 154; DB 24; Length 154;
 Best Local Similarity 100 %; Pred. No. 6.5e-29;
 Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 CGGCCGGAGCTGGTGGTATCGCTCATCGCTGAGCTGGCCGAGACTGGCT 60
 Db 1 CGGCCGGAGCTGGTGGTATCGCTCATCGCTGAGCTGGCCGAGCTGGCT 60
 Qy 61 CATCGTCGACTCGGGGCGACTCGGAGATGAGCTGGAGATGAGCTGGCG 120
 Db 61 CATCGTCGACTCGGGGCGCCGACTCGGAGATGAGCTGGAGATGAGCTGGCG 120
 Qy 121 ACTCGAGCATGAGCGAGATGACCAAGCTCGGCCG 154
 Db 121 ACTCGAGCATGAGCGAGATGACCAAGCTCGGCCG 154

Query Match 1 CGGCCGGAGCTGGTGGTATCGCTCATCGCTGAGCTGGCCGAGACTGGCT 60
 Best Local Similarity 100 %; Pred. No. 6.5e-29;
 Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 CGGCCGGAGCTGGTGGTATCGCTCATCGCTGAGCTGGCCGAGACTGGCT 60
 Db 154 CGGCCGGAGCTGGTGGTATCGCTCATCGCTGAGCTGGCCGAGACTGGCT 95
 Qy 61 CATCGTCGACTCGGGGCGACTCGGAGATGAGCTGGAGATGAGCTGGCG 120
 Db 94 CATCGTCGACTCGGGGCGACTCGGAGATGAGCTGGAGATGAGCTGGCG 35
 Qy 121 ACTCGAGCATGAGCGAGATGACCAAGCTCGGCCG 154
 Db 34 ACTCGAGCATGAGCGAGATGACCAAGCTCGGCCG 1
 RESULT 2
 AAD32908/C
 ID AAD32908 standard; DNA; 154 BP.
 XX
 AC AAD32908;
 XX
 DT 01-JUL-2002 (first entry)
 XX
 DE Plasmid pKS133 2X ELVISLIVES complementary repeat DNA.
 XX
 KW diverged delta-9 fatty acid desaturase; enzyme; cellular lipid;
 KW oil; transgenic plant; gene mapping; immunisation; plasmid pKS133;
 KW gene; ds.
 XX
 OS Unidentified.
 XX
 FH Key Location/Qualifiers
 RESULT 3
 AAD2931

RESULT 5
 BK10072 ABK10072 standard; DNA; 4974 BP.
 X ABK10072;
 C ABK10072;
 X 05-JUN-2002 (first entry)
 X Plasmid pKS133 DNA.
 E Plastidic phosphoglucomutase; gene; ds; plasmid pKS133.

X X EP1174510-A2.
 X X 23-JAN-2002.
 X X 17-JUL-2001; 2001EP-0306143.
 X X 17-JUL-2000; 2000US-218712P.
 X X (DUPONT DE NEMOURS & CO E I.
 X X Allen SM, Butler KH, Carlson TJ, Flag LL;
 X X WPI; 2002-156692/21.
 R R Novel isolated polypeptides having phosphoglucomutase activity and polynucleotides encoding the polypeptides, useful for producing transgenic plants with altered plastidic phosphoglucomutase levels

cell under conditions that are suitable for expression of the chimeric gene, where the expression of the gene results in production of altered levels of plastid phosphoglucomutase. This sequence represents plasmid DNA used in the methods of the invention.

Note: This sequence is not represented in the printed specification but is based on sequence information supplied by the European Patent Office.

| Query | Match | 72.7% | Score 112; | DB 24; | Length 4974; |
|-----------------------|---|--------------------|------------|--------|--------------|
| Best Local Similarity | 100.0% | Pred. No. 1.3e-18; | | | |
| Matches 112; | Conservative 0; | Mismatches 0; | Indels 0; | Gaps | |
| Qy | 1 CGGCCGAGCTGGTCACTCGCTCATGTCAGTCGGCGGGAGCTGGCATCTGCT 60 | | | | |
| Db | 4863 CGGCCGAGCTGGTCACTCGCTCATGTCAGTCGGCGGGAGCTGGCATCTGCT 4922 | | | | |
| Qy | 61 CATCGTCGAGTCGGCCGCGACTCGACATGAGCTGGAGATGACCGAGCTCC 112 | | | | |
| Db | 4923 CATCGTCGAGTCGGCCGCGACTCGACATGAGCTGGAGATGACCGAGCTCC 4974 | | | | |

| RESULT 6 | |
|------------|---|
| ABK10072/c | |
| ID | ABK10072 standard; DNA; 4974 BP. |
| XX | |
| AC | ABK10072; |
| XX | |
| DT | 05-JUN-2002 (first entry) |
| XX | |
| DE | Plasmid pKS133 DNA. |
| KW | Plastidic phosphoglucomutase; gene; ds; plasmid pKS133. |

PS Example 9; SEQ ID NO 17: 27pp; English.

XX The invention relates to plastidic phosphoglucomutase polypeptides and
XX their related nucleic acids. The sequences are useful for producing a
XX transgenic plant, by transforming a plant cell with a polynucleotide of
XX the invention and regenerating a plant from the transformed plant cell.
XX Polynucleotide fragments are useful for suppressing the level of
XX expression of a gene encoding a polypeptide having plastidic
XX phosphoglucomutase activity. An isolated polynucleotide that affects the
XX level of expression of a plastidic phosphoglucomutase polypeptide in a
XX plant cell can be identified by introducing DNA fragment comprising at
XX least 541 nucleotides, measuring the level of the polypeptide in the
XX plant cell containing the polynucleotide, and comparing the level of the
XX polypeptide in the plant cell containing the isolated polynucleotide with
XX the level of the polypeptide in a plant cell that does not contain the
XX isolated polynucleotide. A method for altering the level of expression of
XX a plastidic phosphoglucomutase protein in a host cell comprises
XX transforming a host cell with a chimeric gene and growing the transformants

CC limiting, to isolate cDNAs and genes encoding homologous proteins from
CC the same or other plant species and to create transgenic plants or in
CC the polypeptides are present at higher or lower levels than normal or in
CC cell types or developmental stages in which they are not normally found,
CC thus altering the level of mono-, poly- and unsaturated fatty acids in
CC those cells. They are useful as probes for genetic and physical gene
CC mapping and as markers, e.g. restriction fragment length polymorphism
CC (RFLP) markers. The peptides can be used to immunise animals to produce
CC antibodies specific for the peptides and proteins. The present sequence
CC is plasmid PBS8 which is used for the suppression of diverged delta-9
CC desaturase in high stearate phenotypes. This sequence is used in the
CC exemplification of the invention.
CC Note: The sequence data for this sequence (AAD32909) corresponding to
CC position 1501 to 6611 is not represented in the printed specification
CC but is based on the sequence information supplied by the European Patent
CC Office.

| | | |
|----|--------------|--|
| XX | Key | Location/Qualifiers |
| FH | terminator | 523..725 |
| FT | | /tag= b |
| FT | | /label= Kit3_terminator |
| FT | | complement (880..1920) |
| FT | misc_feature | /tag= b |
| FT | | /note= "Hygromycin selection region" |
| FT | promoter | 3260..5348 |
| FT | | /tag= C |
| FT | | /label= Kit3_promoter |
| XX | PN | WO200216565-A2. |
| XX | XX | |
| XX | PD | 28-FEB-2002. |
| XX | | |
| XX | PF | 22-AUG-2001; 2001WO-US26246. |
| XX | PR | 22-AUG-2000; 2000US-226996P. |
| XX | | |
| XX | PA | (DUPO) DU PONT DE NEMOURS & CO E I. |
| XX | PA | |
| XX | PI | Booth JR, Cahoon RE, Hitz WD, Kinney AJ, Yadav N |
| XX | DR | |
| XX | PT | New delta-9 fatty acid desaturase polypeptides and |

PT useful in creating transgenic plants having altered levels of mono-,
 PT poly- and unsaturated fatty acids and in increasing the unsaturation
 PT levels in cellular lipids

XX Example 9; Page 76-77; 77pp; English.

PS The present invention relates to diverged delta-9 fatty acid desaturase
 CC proteins and polynucleotides encoding such proteins. The nucleic acid
 CC sequences may be used to increase the level of unsaturation in cellular
 CC lipids, including oil, in tissues when the enzyme is absent or rate-
 CC limiting, to isolate cDNAs and genes encoding homologous proteins from
 CC the same or other plant species and to create transgenic plants in which
 CC the polypeptides are present at higher or lower levels than normal or in
 CC cell types or developmental stages in which they are not normally found,
 CC thus altering the level of mono-, poly- and unsaturated fatty acids in
 CC those cells. They are useful as probes for genetic and physical gene
 CC mapping and as markers, e.g. restriction fragment length polymorphism
 CC (RFLP) markers. The peptides can be used to immunise animals to produce
 CC antibodies specific for the peptides and proteins. The present sequence
 CC is plasmid pB568 which is used for the suppression of diverged delta-9
 CC desaturase in high stearate phenotypes. This sequence is used in the
 CC exemplification of the invention.

CC Note: The sequence data for this sequence (AAD32909) corresponding to
 CC position 1501 to 6611 is not represented in the printed specification
 CC but is based on the sequence information supplied by the European Patent
 CC office.

XX Sequence 6611 BP; 1831 A; 1472 C; 1453 G; 1854 T; 1 other;

SO Query Match 53.8%; Score 82.8; DB 24; Length 6611;
 Best Local Similarity 97.7%; Pred. No. 1.7e-11;
 Matches 84; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 69 ATGGCGCCGGCGCGACTGACGATGAGGTGAGCTGGCGCGACTCGAGG 128
 Db 5433 ATCAGGCCGCCGCCGACCGACGATGAGATGAGCGACTCGGCCGAGCTCGAGG 5374
 Qy 129 ATGAGCGAGATGACGAGCTCGGCCG 154
 Db 5373 ATGAGCGAGATGACGAGCTCGGCCG 5348

SO Sequence 6611 BP; 1831 A; 1472 C; 1453 G; 1854 T; 0 other;

Query Match 52.6%; Score 81; DB 24; Length 81;
 Best Local Similarity 100.0%; Pred. No. 3.8e-11;
 Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CGGC GGAGCTGGTCAATCGCTGAGTCGAGTCGAGCTGGTCAATCTCGCTG 60
 Db 1 CGGC GGAGCTGGTCAATCGCTGAGTCGAGTCGAGCTGGTCAATCTCGCTG 60
 Qy 61 CATCGTCGAGTCGCGGCCGC 81
 Db 61 CATCGTCGAGTCGCGGCCGC 81

SO RESULT 9
 ABK10711 standard; DNA; 81 BP.

XX ABK10711;
 AC ABK10711;
 XX 05-JUN-2002 (first entry)
 XX DE Artificial DNA sequence #3.

XX Plastidic phosphoglucomutase; transgenic; plant; gene; ds.

OS Synthetic.

XX FH Key
 XX CDS Location/Qualifiers

FT FT 7.36
 FT FT /*tag-^a /product- "ELVISLIVES peptide"

FT FT /partial- "No start or stop codon shown"

FT FT 44..73
 FT FT /*tag-^b /product- "ELVISLIVES peptide"

FT FT /partial- "No start or stop codon shown"

XX PN EP1174510-A2.

XX XX 23-JAN-2002.

XX XX 17-JUL-2001; 2001EP-0306143.

XX PR 17-JUL-2000; 2000US-218712P.

XX XX (DUPO) DU PONT DE NEMOURS & CO E I.

XX PA PI Allen SM, Butler KH, Carlson TJ, Ilag LL;

XX DR PT-PSDB; AAU77109.

XX WPI; 2002-156652/21.

XX Novel isolated polypeptides having phosphoglucomutase activity and
 PT polynucleotides encoding the polypeptides, useful for producing
 PT transgenic plants with altered plastidic phosphoglucomutase protein
 PT levels -

XX PS Example 9; Page 19; 27pp; English.

XX The invention relates to plastidic phosphoglucomutase polypeptides and
 CC their related nucleic acids. The sequences are useful for producing a
 CC transgenic plant, by transforming a plant cell with a polynucleotide of
 CC the invention and regenerating a plant from the transformed plant cell.
 CC Polynucleotide fragments are useful for suppressing the level of
 CC a polypeptide having plastidic phosphoglucomutase activity. An isolated
 CC polynucleotide that affects the level of expression of a plastidic
 CC phosphoglucomutase polypeptide can be identified by introducing a DNA
 CC fragment comprising at least 541 nucleotides, measuring the level of the polypeptide in the
 CC plant cell containing the polynucleotide, and comparing the level of the
 CC polypeptide in the plant cell containing the isolated polynucleotide with
 CC the level of the polypeptide in a plant cell that does not contain the
 CC isolated polynucleotide. A method for altering the level of expression of
 CC a plastidic phosphoglucomutase protein in a host cell comprises
 CC transforming a host cell with a chimeric gene and growing the transformed
 CC cell under conditions that are suitable for expression of the chimeric
 CC gene, where the expression of the gene results in production of altered
 CC levels of plastidic phosphoglucomutase. This sequence represents an
 CC artificial DNA used for plasmid construction, in the methods of the
 CC invention.

XX SQ Sequence 81 BP; 8 A; 28 C; 29 G; 16 T; 0 other;

Query Match 52.6%; Score 81; DB 24; Length 81;
 Best Local Similarity 100.0%; Pred. No. 3.8e-11;
 Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CGGC GGAGCTGGTCAATCGCTGAGTCGAGTCGAGCTGGTCAATCTCGCTG 60
 Db 1 CGGC GGAGCTGGTCAATCGCTGAGTCGAGTCGAGCTGGTCAATCTCGCTG 60
 Qy 61 CATCGTCGAGTCGCGGCCGC 81
 Db 61 CATCGTCGAGTCGCGGCCGC 81

SO RESULT 10

ABK10711/c
 ID ABK10711 standard; DNA; 81 BP.

XX AC ABK10711;

XX DT 05-JUN-2002 (first entry)

XX DE Artificial DNA sequence #3.

XX KW Plastidic phosphoglucomutase; transgenic; plant; gene; ds.

XX OS Synthetic.

XX FH Key
 XX CDS Location/Qualifiers

FT FT 7.36
 FT FT /*tag-^a /product- "ELVISLIVES peptide"

FT FT /partial- "No start or stop codon shown"

FT FT 44..73
 FT FT /*tag-^b /product- "ELVISLIVES peptide"

FT FT /partial- "No start or stop codon shown"

XX PN EP1174510-A2.

XX XX 23-JAN-2002.

XX XX 17-JUL-2001; 2001EP-0306143.

XX PR 7.36
 FT /*tag-^a /product- "ELVISLIVES peptide"

FT /partial- "ELVISLIVES peptide"

FT /partial- "ELVISLIVES peptide"

DE Plasmid pBS149 2X ELVISLIVES complementary region DNA.
 XX Recombinant construct; gene expression; late-soybean-embryo promoter;
 KW LEA; galactinol synthase; GAS1; GAS2; plasmid pBS149; ds.
 XX Unidentified.
 OS
 XX
 PN WO200200904-A2.
 XX PD 03-JAN-2002.
 XX PF 22-JUN-2001; 2001WO-US19962.
 XX PR 23-JUN-2000; 2000US-213961P.
 XX PA (DUPO) DU PONT DE NEMOURS & CO E I.
 PA (PION-) PIONEER HI-BRED INT INC.
 XX PI Glassman KF, Gordon-Kamm WJ, Kinney AJ, Lowe K, Steccea KL;
 PI Nichols SE;
 XX DR WPI; 2002-139927/18.
 XX PT New recombinant construct having a promoter operably linked to a DNA
 PT sequence which when expressed produces an RNA having homology to a
 PT target mRNA and its reverse complement unrelated to endogenous DNA, for
 PT reducing gene expression -
 XX Example 10; Page 72; 77pp; English.
 XX
 CC The present invention relates to a new recombinant construct. The
 CC construct comprises a promoter operably linked to a DNA sequence which
 CC when expressed by a host produces an RNA having homology to at least one
 CC target mRNA expressed by the host and complementary RNA regions. The
 CC recombinant construct is useful for reducing the expression of a target
 CC mRNA or any similar endogenous mRNA. The RNAs expressed from the
 CC recombinant constructs are also used in reducing expression of a target
 CC mRNA and a phaseolin 3, terminator region. This
 CC sequences and their reverse
 CC complements can be used to reduce the expression of any endogenous
 CC genomic sequence that shares substantial similarity to nucleic acid
 CC fragment which is in proximity to the DNA or RNA sequence derived from
 CC it. The present sequence is 2X ELVISLIVES complementary region from
 CC pBS149 that contains fragments from two soybean galactinol synthase genes
 CC GAS1 and GAS2. The region is functionally attached to a late-soybean-
 CC embryo promoter (LEA) and a phaseolin 3, terminator region. This
 CC entire region is then cloned into BAMHI site of pBS136, which contains a
 CC 2X ELVISLIVES complementary region controlled by a soybean Rti promoter
 CC and terminator region used in the exemplification of the invention.
 XX Sequence 963 BP; 240 A; 243 C; 248 G; 232 T; 0 other;
 SQ Query Match 52.6%; Score 81; DB 24; Length 963;
 Best Local Similarity 100.0%; Pred. No. 4.3e-11;
 Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 963 CGCCGGAGCTGGTCACTCGCTCATCGTCAGTCGGCCGGAGCTGTCATCTCGCT 60
 Qy 1 CGCCGGAGCTGGTCACTCGCTCATCGTCAGTCGGCCGGAGCTGTCATCTCGCT 904
 Db 963 CATCGTCAGTCGGCCCGC 81
 Qy 61 CATCGTCAGTCGGCCCGC 81
 Db 903 CATCGTCAGTCGGCCCGC 883
 RESULT 13
 AAD32907
 ID AAD32907 standard; DNA; 80 BP.
 XX AC AAD32907;
 XX DR 01-JUL-2002 (first entry)
 XX DE Plasmids pKS106, pKS124 1X ELVISLIVES complementary repeat DNA.

XX Diverged delta-9 fatty acid desaturase; enzyme; cellular lipid;
 KW oil; transgenic plant; gene mapping; immunisation; Plasmid pKS124;
 KW Plasmid pKS106; gene; ds.
 XX OS Unidentified.
 XX
 FH Key Location/Qualifiers
 FT CDS 7.36
 FT /*tag- a
 FT /product- "ELVISLIVES protein"
 FT complement (45.74)
 FT /*tag- b
 FT /product- "ELVISLIVES protein"
 XX
 PN WO200216365-A2.
 XX PD 28-FEB-2002.
 XX PP 22-AUG-2001; 2001WO-US26246.
 XX DR WPI; 2002-269353/31.
 DR PR 22-AUG-2000; 2000US-226996P.
 XX PA (DUPO) DU PONT DE NEMOURS & CO E I.
 XX PI Booth JR, Cahoon RE, Hitz WD, Kinney AJ, Yadav NS;
 XX DR WPI; 2002-269353/31.
 DR PR 22-AUG-2000; 2000US-226996P.
 XX PT New delta-9 fatty acid desaturase polypeptides and polynucleotides,
 PT useful in creating transgenic plants having altered levels of mono-,
 PT poly- and unsaturated fatty acids and in increasing the unsaturation
 PT levels in cellular lipids -
 XX PS Example 9; Page 43; 77pp; English.
 XX The present invention relates to diverged delta-9 fatty acid desaturase
 CC proteins and polynucleotides encoding such proteins. The nucleic acid
 CC sequences may be used to increase the level of unsaturation in cellular
 CC lipids, including oil, in tissues when the enzyme is absent or rate-
 CC limiting, to isolate cDNAs and genes encoding homologous proteins from
 CC the same or other plant species and to create transgenic plants in which
 CC the polypeptides are present at higher or lower levels than normal or in
 CC cell types or developmental stages in which they are not normally found,
 CC thus altering the level of mono-, poly- and unsaturated fatty acids in
 CC those cells. They are useful as probes for genetic and physical gene
 CC mapping and as markers, e.g. restriction fragment length polymorphism
 CC (RFLP) markers. The peptides can be used to immunise animals to produce
 CC antibodies specific for the peptides and proteins. The present sequence
 CC is 1X ELVISLIVES complementary repeat region DNA found in plasmids pKS106
 CC and pKS124. This sequence is used in the exemplification of the invention
 CC for the suppression of Fad2 in soybean.
 XX SQ Sequence 80 BP; 12 A; 28 C; 28 G; 12 T; 0 other;
 SQ Query Match 51.9%; Score 80; DB 24; Length 80;
 Best Local Similarity 100.0%; Pred. No. 6.7e-11;
 Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db 98 CGCCGGAGCTGGTCACTCGCTCATCGTCAGTCGGCCGGAGCTGTCATCTCGCT 97
 Qy 1 CGCCGGAGCTGGTCACTCGCTCATCGTCAGTCGGCCGGAGCTGTCATCTCGCT 904
 Db 1 CGCCGGAGCTGGTCACTCGCTCATCGTCAGTCGGCCGGAGCTGTCATCTCGCT 80
 Qy 98 GAGATGACCAGCTCGCCCG 117
 Db 61 GAGATGACCAGCTCGCCCG 80
 RESULT 14
 AAD32907
 ID AAD32907 /c
 ID AAD32907 standard; DNA; 80 BP.
 XX

| | | | |
|----|----|-----------------------|-----|
| Qy | 98 | GAGATGACCAAGCTTCGGCCG | 117 |
| | | | |
| Db | 61 | GAGATGACCAAGCTTCGGCCG | 80 |
| | | | |

Search completed: November 19, 2002, 05:24:32
Job time : 302 secs

| Result | No. | Score | Query | Match | Length | DB | ID | Description |
|--------|------|-------|-------|---------|--------|-------------------|----|--------------------|
| 1 | 34.8 | 22.6 | 1681 | 4 | 0 | US-09-434-288-7 | | Sequence 7, Appli |
| c | 2 | 34.8 | 22.6 | 1681 | 4 | US-09-434-288-7 | | Sequence 7, Appli |
| c | 3 | 34 | 22.1 | 4403765 | 4 | US-09-103-840A-2 | | Sequence 1, Appli |
| c | 4 | 34 | 22.1 | 4411529 | 4 | US-09-103-840A-2 | | Sequence 1, Appli |
| c | 5 | 34 | 22.1 | 4411529 | 4 | US-09-103-840A-2 | | Sequence 1, Appli |
| c | 6 | 32.4 | 21.3 | 4403765 | 4 | US-09-103-840A-2 | | Sequence 2, Appli |
| c | 7 | 32.4 | 21.0 | 2238 | 1 | US-07-841-651-1 | | Sequence 1, Appli |
| c | 8 | 32.4 | 21.0 | 2238 | 1 | US-07-841-551-1 | | Sequence 1, Appli |
| c | 9 | 32 | 20.8 | 2119 | 3 | US-09-032-372-6 | | Sequence 6, Appli |
| c | 10 | 32 | 20.8 | 2119 | 3 | US-09-032-372-6 | | Sequence 40, Appli |
| c | 11 | 30.8 | 20.0 | 2787 | 4 | US-09-0105-372-40 | | Sequence 40, Appli |
| c | 12 | 30.8 | 20.0 | 2787 | 4 | US-09-105-372-40 | | Sequence 21, Appli |
| c | 13 | 30.8 | 20.0 | 5970 | 3 | US-09-320-878-21 | | Sequence 21, Appli |
| c | 14 | 30.8 | 20.0 | 5970 | 3 | US-09-320-878-21 | | Sequence 21, Appli |
| c | 15 | 30.6 | 19.9 | 1734 | 6 | 5352575-8 | | Patent No. 5352575 |
| c | 16 | 30.6 | 19.9 | 1734 | 6 | 5352575-8 | | Sequence 1, Appli |
| c | 17 | 30.4 | 19.7 | 11219 | 1 | US-07-642-734C-1 | | Sequence 1, Appli |
| c | 18 | 30.4 | 19.7 | 11219 | 1 | US-07-642-734C-1 | | Sequence 1, Appli |
| c | 19 | 30.4 | 19.7 | 11219 | 3 | US-08-439-009A-1 | | Sequence 1, Appli |
| c | 20 | 30.4 | 19.7 | 11219 | 3 | US-08-439-009A-1 | | Sequence 1, Appli |
| c | 21 | 30.2 | 19.6 | 7898 | 4 | US-08-984-709A-19 | | Sequence 49, Appli |
| c | 22 | 30.2 | 19.6 | 7898 | 4 | US-08-984-709A-19 | | Sequence 49, Appli |
| c | 23 | 29.8 | 19.4 | 3252 | 2 | US-08-809-740A-1 | | Sequence 1, Appli |
| c | 24 | 29.8 | 19.4 | 3252 | 2 | US-08-809-740A-1 | | Sequence 1, Appli |
| c | 25 | 29.8 | 19.4 | 3252 | 2 | US-08-809-740A-1 | | Sequence 4, Appli |
| c | 26 | 29.8 | 19.4 | 3252 | 2 | US-08-809-740A-1 | | Sequence 4, Appli |
| c | 27 | 29.4 | 19.1 | 6822 | 4 | US-09-426-998-3 | | Sequence 9, Appli |

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 19, 2002, 04:09:45 ; Search time 54 Seconds (without alignments)
874.597 Million cell updates/sec

Title: US-09-887-194A-13
Perfect score: 154
Sequence: 1 cggccggactgttcatcc gagatgaccagactccggccg 154

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Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 20000000000

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Listing first 45 summaries

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6: /cgn2_6/pcodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

8

RESULT 1
US-09-434-288-7

; Sequence 7, Application US/09434288
; Patent No. 6303767

; GENERAL INFORMATION:
; APPLICANT: Bettlach C., Melanie
; TITLE OF INVENTION: POLYKETIDE SYNTHASE ENZYMES AND RECOMBINANT DNA
; FILE REFERENCE: 3006/2-20030.00
; CURRENT APPLICATION NUMBER: US/09-434-288
; CURRENT FILING DATE: 1999-11-05
; PRIORITY NUMBER: 60/107,093
; PRIORITY FILING DATE: 1998-11-05
; SEQ ID NO: 7
; SOFTWARE: PatentIn Ver. 2.1
; LENGTH: 1681
; TYPE: DNA
; ORGANISM: Streptomyces narbonensis
US-09-434-288-7

RESULT 2
US-09-434-288-7/c

; Sequence 7, Application US/09434288
; Patent No. 6303767

; GENERAL INFORMATION:
; APPLICANT: Bettlach C., Melanie
; TITLE OF INVENTION: POLYKETIDE SYNTHASE ENZYMES AND RECOMBINANT DNA
; FILE REFERENCE: 3006/2-20030.00
; CURRENT APPLICATION NUMBER: US/09-434-288
; CURRENT FILING DATE: 1999-11-05
; PRIORITY NUMBER: 60/107,093
; PRIORITY FILING DATE: 1998-11-05
; SEQ ID NO: 7

SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 2
 LENGTH: 4403765
 TYPE: DNA
 ORGANISM: Mycobacterium tuberculosis
 FEATURE: CDC 1551
 OTHER INFORMATION: "n" bases at various positions throughout the sequence
 OTHER INFORMATION: represent a, t, c or g
 US-09-103-840a-2

Query Match 21.3%; Score 32.8; DB 4; Length 4403765;
 Best Local Similarity 59.2%; Pred. No. 4.3;
 Matches 58; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

RESULT 8
 Query 21.3%; Score 32.4; DB 1; Length 2238;
 Best Local Similarity 62.2%; Pred. No. 5.1;
 Matches 51; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

Qy 70 GTCGGGGCGGCCSACTCGACGATGAGGAGATGACCACTCCGGCCGACTCGAGCA 129
 Db 726 GACGGTGTCCGAGAACCCGGCTGTGGCACATCTCCAGCCGGCTAC 785

Qy 130 TGACCGAGATGACCAAGCTCGG 151
 Db 786 TGACTCCATCATGCTCGG 807

RESULT 8
 Sequence 1, Application US/07841651
 Patent No. 5410031
 GENERAL INFORMATION:
 APPLICANT: Pajor, Ana M
 TITLE OF INVENTION: Cloning and Functional Expression of a Mammalian Na+/Nucleoside Cotransporter: A Member of the SGLT Family
 NUMBER OF SEQUENCES: 4
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sheldon & Mak
 STREET: 225 South Lake Avenue, Ninth Floor
 CITY: Pasadena
 STATE: California
 ZIP: 91101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/841,651
 FILING DATE: 19920224
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Mandel, Saralynn
 REGISTRATION NUMBER: 31,853
 REFERENCE/DOCKET NUMBER: 8772
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (818) 796-4000
 TELEFAX: (818) 795-6321
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2238 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Oryctolagus cuniculus
 NAME/KEY: CDS
 LOCATION: 7..2022

US-07-841-651-1
 Query Match 21.0%; Score 32.4; DB 1; Length 2238;
 Best Local Similarity 62.2%; Pred. No. 5.1;
 Matches 51; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

Qy 4 CCGAGCTGGTCATCTCGCTCATCGAGCTGGCCGGAGCTGGCATCTGGCTCAT 63
 Db 807 CCGAGGCAATGATAGGACTCGCCGGCTCGTAGCAGGCTGGAGATGTCGCCAC 748

Qy 64 CGTCGAGTCGGGGCGGAC 85

Db 747 AGCGGGTCCGGACACGGTC 726

RESULT 9

US-09-032-372-6

; Sequence 6, Application US/09032372

; Patent No. 6008337

; GENERAL INFORMATION:

; APPLICANT: Bandman, Olga

; APPLICANT: Hillman, Jennifer L.

; APPLICANT: Corley, Neil C.

; APPLICANT: Guegler, Karl J.

; APPLICANT: Yue, Henry

; APPLICANT: Lal, Preeti

; TITLE OF INVENTION: CELL CYCLE RELATED PROTEINS

; NUMBER OF SEQUENCES: 13

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Drive

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FASTSEQ For Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/032,372

; FILING DATE: Herewith

; CLASSIFICATION:

; NAME: Billings, Lucy J

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0478 US

; TELECOMMUNICATION INFORMATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0478 US

; TELEPHONE: 650-855-0555

; TELEFAX: 650-845-4166

; TELEX:

; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2119 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: SYNORAB01

; CLONE: 78191

US-09-032-372-6

Query Match 20.8%; Score 32; DB 3; Length 2119;

Best Local Similarity 51.4%; Pred. No. 6.4%; Mismatches 70; Indels 0; Gaps 0;

Matches 74; Conservative 0;

Qy 5 CGGAGCTGTCATCTCGCTCATGTCGAGTCGGGGAGCTGTCATCTCGCTCATC 64

Db 151 CGAGGCTCTCGCTCCGTCGGTCCCGGAAAGATGGAAACSSAGGGCTG 210

Qy 65 GTGAGTGGCGGCCGAGCTGAGATGAGGAGATGAGCTGGCGGCAGTC 124

Db 211 CAGGAAAGAGCAGCTGGCGTCGGCTGAAGGCCAAGGGCAAGCTG 270

Qy 125 GACGATGAGGAGATGACAGTC 148

Db 271 GAGGAGGAGGAGCCAGCTGAC 294

US-09-105-537-40

; Sequence 40, Application US/0910537A

; Patent No. 6265202

; GENERAL INFORMATION:

; APPLICANT: Sherman, D.H.

RESULT 11

US-09-032-372-6

; Sequence 6, Application US/09032372

; Patent No. 6008337

; GENERAL INFORMATION:

; APPLICANT: Bandman, Olga

; APPLICANT: Hillman, Jennifer L.

; APPLICANT: Corley, Neil C.

; APPLICANT: Guegler, Karl J.

; APPLICANT: Yue, Henry

; APPLICANT: Lal, Preeti

; TITLE OF INVENTION: CELL CYCLE RELATED PROTEINS

; NUMBER OF SEQUENCES: 13

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Incyte Pharmaceuticals, Inc.

; STREET: 3174 Porter Drive

; CITY: Palo Alto

; STATE: CA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FASTSEQ For Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/032,372

; FILING DATE: Herewith

; CLASSIFICATION:

; NAME: Billings, Lucy J

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0478 US

; TELECOMMUNICATION INFORMATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Billings, Lucy J

; REGISTRATION NUMBER: 36,749

; REFERENCE/DOCKET NUMBER: PF-0478 US

; TELEPHONE: 650-855-0555

; TELEFAX: 650-845-4166

; TELEX:

; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 2119 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: SYNORAB01

; CLONE: 78191

US-09-032-372-6

Query Match 20.8%; Score 32; DB 3; Length 2119;

Best Local Similarity 51.4%; Pred. No. 6.4%; Mismatches 70; Indels 0; Gaps 0;

Matches 74; Conservative 0;

Qy 7 GAGCTGGCATCGCTGATCGTCGAGTCGGGGAGCTGTCATCTCGCTCATC 66

Db 294 GTGAGCTGGCTGCTCCCTCCAGCTGGCTTCGGCTCTCGCTCATC 235

Qy 67 CGACTGGCGGCCGAGCTGAGATGAGCTGGCGGCAGTC 126

Db 234 CGAGGCAGCTGGCTCTCGCTGGCTCCGGCTGGCTCTCGCTCATC 175

Qy 127 CGATGAGGAGATGACAGCTCC 150

Db 174 CGGAGGGAGCCAGCTCG 151

APPLICANT: Liu, H.
 APPLICANT: Xue, Y.
 APPLICANT: Zhao, L.
 TITLE OF INVENTION: DNA encoding methymycin and pikromycin
 FILE REFERENCE: 300622002120
 CURRENT APPLICATION NUMBER: US/09/320,878A
 CURRENT FILING DATE: 1999-05-27
 EARLIER APPLICATION NUMBER: CIP OF 09/141,908
 EARLIER FILING DATE: 1998-08-28
 EARLIER APPLICATION NUMBER: CIP OF 09/073,538
 EARLIER FILING DATE: 1998-05-06
 EARLIER APPLICATION NUMBER: CIP OF 08/846,247
 EARLIER FILING DATE: 1997-04-30
 EARLIER APPLICATION NUMBER: 60/119,139
 EARLIER FILING DATE: 1999-02-08
 EARLIER APPLICATION NUMBER: 60/100,880
 EARLIER FILING DATE: 1998-09-22
 EARLIER APPLICATION NUMBER: 60/087,080
 EARLIER FILING DATE: 1998-05-28
 NUMBER OF SEQ ID NOS: 34
 SEQ ID NO 40
 LENGTH: 2787
 TYPE: DNA
 ORGANISM: Streptomyces venezuelae
 US-09-105-537-40

Query Match 20.0%; Score 30.8; DB 4; Length 2787;
 Best Local Similarity 57.1%; Pred. No. 12; Mismatches 0; Gaps 0;
 Matches 56; Conservative 0; Mismatches 42; Indels 0; Gaps 0;
 SEQ ID NO 21
 LENGTH: 5970

Qy 57 CGCTCATCGTGGAGTCGGCCGGCGACAGTCGAGATGGCGAGATGACCAAGCTCCGGCC 116
 Db 77 CGCTCTTACGTGTCGGACCGGGCGACAGTCGAGATGGCGAGATGACCAAGCTCCGGCC 136

Qy 117 GCGACTCGAGATGAGCGAGATGAGCACTCGGCCG 154
 Db 137 GCGGGCTGCGCCGAGCGGGAGACCCCGCTGGCTC 174

RESULT 12
 US-09-105-537-40/c
 Sequence 40, Application US/09105537A
 Patent No. 6265202
 GENERAL INFORMATION:
 APPLICANT: Sherman, D. H.
 APPLICANT: Liu, H.
 APPLICANT: Xue, Y.
 APPLICANT: Zhao, L.
 TITLE OF INVENTION: DNA encoding methymycin and pikromycin
 FILE REFERENCE: 600.438051
 CURRENT APPLICATION NUMBER: US/09/105,537A
 CURRENT FILING DATE: 1998-06-26
 NUMBER OF SEQ ID NOS: 43
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO 40
 LENGTH: 2787
 TYPE: DNA
 ORGANISM: Streptomyces venezuelae
 US-09-105-537-40

Query Match 20.0%; Score 30.8; DB 4; Length 2787;
 Best Local Similarity 57.1%; Pred. No. 12; Mismatches 0; Gaps 0;
 Matches 56; Conservative 0; Mismatches 42; Indels 0; Gaps 0;
 SEQ ID NO 21
 LENGTH: 5970

Qy 1 CGGGCGAGGCGCTCATCTCGCTCATCGTGGAGTCGGCCGGAGCTCGTCACTCGCT 60
 Db 174 CGACCAAGCGGGGTCMCCCGCTCGCCAGCGAGCTCGCT 115

Qy 61 CATCGTGGAGTGGCGCGACTGACATGAGCG 98
 Db 114 CTTCCCGCTGGCGGGTCCGGAGACGTAAGAGCG 77

RESULT 13
 US-09-320-878-21
 Sequence 21, Application US/09320878A
 Patent No. 6117659
 GENERAL INFORMATION:
 APPLICANT: ASHLEY, Gary
 APPLICANT: BETLACH, Melanie C.
 APPLICANT: McDANIEL, Robert
 APPLICANT: TANG, Li
 TITLE OF INVENTION: RECOMBINANT NARBONOLIDE POLYKETIDE SYNTHASE
 FILE REFERENCE: 300622002120
 CURRENT APPLICATION NUMBER: US/09/320,878A
 CURRENT FILING DATE: 1999-05-27
 EARLIER APPLICATION NUMBER: CIP OF 09/141,908
 EARLIER FILING DATE: 1998-08-28
 EARLIER APPLICATION NUMBER: CIP OF 09/073,538
 EARLIER FILING DATE: 1998-05-06
 EARLIER APPLICATION NUMBER: CIP OF 08/846,247
 EARLIER FILING DATE: 1997-04-30
 EARLIER APPLICATION NUMBER: 60/119,139
 EARLIER FILING DATE: 1999-02-08
 EARLIER APPLICATION NUMBER: 60/100,880
 EARLIER FILING DATE: 1998-09-22
 EARLIER APPLICATION NUMBER: 60/087,080
 EARLIER FILING DATE: 1998-05-28
 NUMBER OF SEQ ID NOS: 34
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 21
 LENGTH: 5970
 TYPE: DNA
 ORGANISM: Streptomyces venezuelae
 US-09-320-878-21

Query Match 20.0%; Score 30.8; DB 3; Length 5970;
 Best Local Similarity 57.1%; Pred. No. 13; Mismatches 42; Indels 0; Gaps 0;

Qy 1 CGGGGGGACCTGGTCATCTGCTGAGTCGGGGGGAGCTGGTCATCTGGCT 60
 Db 2912 CGACAGACGGGTCCTCGCTGGCAGGGGACTCGAGATGAGCTCCGT 2853
 Qy 61 CATGTCGAGTCGGCGCCGCGACTCGAGATGAGCG 98
 Db 2852 CTTCCCGCTCGCCGGCGTGGAGACGAGTAAGAGCG 2815

RESULT 15

5352575-8
 ; Patent No. 5352575
 ; APPLICANT: PETROVSKIS, ERIK A.; POST, LEONARD E.; TIMMINS, JAMES G.
 ; TITLE OF INVENTION: PSEUDORIAS PROTEIN
 ; NUMBER OF SEQUENCES: 12
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/513,282
 ; FILING DATE: 20-APR-1990
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 100,817
 ; FILING DATE: 29-JUN-1987
 ; APPLICATION NUMBER: 886,260
 ; FILING DATE: 16-JUL-1986
 ; APPLICATION NUMBER: 784,787
 ; FILING DATE: 04-OCT-1985
 ; APPLICATION NUMBER: 803,799
 ; FILING DATE: 26-NOV-1985
 ; APPLICATION NUMBER: 844,113
 ; FILING DATE: 26-MAR-1986
 ; SEQ ID NO:8:
 ; LENGTH: 1734

5352575-8

Query Match 19.9%; Score 30.6; DB 6; Length 1734;
 Best Local Similarity 51.9%; Pred. No. 14;
 Matches 69; Conservative 0; Mismatches 64; Indels 0; Gaps 0;
 Qy 22 CTCATCGTCAGTCGGGGAGCTGGTCATCTGCTGAGCTGGGGCGCGC 81
 Db 1377 CTGGGGCGTTCTGGCTGGGAGCGGGGACGGCATGCTCGGGTGTAC 1436
 Qy 82 CGACTCGACGATGACGAGATGACCGAGCTCGGGCGGCGACTCGAGATGAGATGA 141
 Db 1437 CAGCTGCAACGAGACTTACCGGGACGAGCGAGCGAGGGCGCA 1496
 Qy 142 CCAGCTCCGGCC 154
 Db 1497 CGCCGCCGGCG 1509

Search completed: November 19, 2002, 07:40:47
 Job time: 8178 secs

Sequence 17, Application US/09906209
; Patent No. US2002165385A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Steve
; APPLICANT: Butler, Tom
; APPLICANT: Carlson, Tom
; APPLICANT: Ilag, Lawrence L.
; TITLE OF INVENTION: Plastidic phosphoglucomutase Genes
; FILE REFERENCE: B1451.NA
; CURRENT APPLICATION NUMBER: US/09/906,209
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 60/218,712
; PRIOR FILING DATE: JULY 17, 2000
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Microsoft Soft. Office 97
; SEQ ID NO 17
; LENGTH: 4974
; TYPE: DNA
; ORGANISM: synthetic construct
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (3951)
; OTHER INFORMATION: n = A, C, G, or T
; US-09-906-209-17

Query Match 72.7%; Score 112; DB 9; Length 4974;
Best Local Similarity 100.0%; Pred. No. 5.7e-22;
Matches 112; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 43 GGAGCTGGTATCTGGCTCATCGTGAGTCGGCCGCCGACTCGGAGAT 102
Db 4974 GGAGCTGGTATCTGGCTCATCGTGAGTCGGCCGCCGACTCGGAGAT 4915

Qy 103 GACCAAGCTCCGGCCGCCGACTCGGAGATGACAGCTCCGGCG 154
Db 4914 GACCAAGCTCCGGCCGCCGACTCGGAGATGACAGCTCCGGCG 4863

RESULT 3
US-09-712-363-100
; Sequence 100, Application US/09712363
; Patent No. US2002164588A1
; GENERAL INFORMATION:
; APPLICANT: Eislenberg, David
; APPLICANT: Rotstein, Sergio H.
; APPLICANT: Marcotte, Edward M.
; TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
; INTERACTIONS OF PROTEINS BY COMPARATIVE ANALYSIS
; FILE REFERENCE: 07419-02001
; CURRENT APPLICATION NUMBER: US/09/712,363
; CURRENT FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/US00/02246
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/179,531
; PRIOR FILING DATE: 2000-02-01
; PRIOR APPLICATION NUMBER: 60/117,844
; PRIOR FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: 60/118,206
; PRIOR FILING DATE: 1999-02-01
; PRIOR APPLICATION NUMBER: 60/126,593
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/134,093
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/134,092
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/165,124
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/165,086
; PRIOR FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 9210
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; US-09-712-363-100

Query Match 21.3%; Score 32.8; DB 9; Length 9210;
Best Local Similarity 59.8%; Pred. No. 1.1; Mismatches 0; Indels 0; Gaps 0;

Qy 28 GTCGAGTGGGGCGGAGCTGGTCATCGCTCGACTGGGCGCGACTC 87
Db 6057 GTCCGCTCCAGTCGGCGTGAACATCGCTGGAAATCGGGCGGC 5998

Qy 88 GACGATGACGGAGATGACCAAGCTCGGCC 119
Db 5997 GGCGTTGACGGGCTGTCAGTCCAGTCAGTC 5966

RESULT 5
US-09-822-830A-20
; Sequence 20, Application US/09822830A
; Patent No. US20020142952A1

NUMBER OF SEQ ID NOS: 292
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 9210

Search completed: November 19, 2002, 05:26:35

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 19, 2002, 05:22:26 ; Search time 3509 Seconds

(without alignments)
1103.432 Million cell updates/sec

Perfect score: US-09-887-194A-13

Sequence: 1 cggcggaggctggatcatctc.....9agatgaccaggctccggccg 154

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72: /cgn2_6/ptodata/1/pna/US6028_COMB.seq:*

73: /cgn2_6/ptodata/1/pna/US6029_COMB.seq:*

74: /cgn2_6/ptodata/1/pna/US6030_COMB.seq:*

75: /cgn2_6/ptodata/1/pna/US6031_COMB.seq:*

76: /cgn2_6/ptodata/1/pna/US6032_COMB.seq:*

77: /cgn2_6/ptodata/1/pna/US6033_COMB.seq:*

78: /cgn2_6/ptodata/1/pna/US6034_COMB.seq:*

79: /cgn2_6/ptodata/1/pna/US6035_COMB.seq:*

80: /cgn2_6/ptodata/1/pna/US6036_COMB.seq:*

81: /cgn2_6/ptodata/1/pna/US6037_COMB.seq:*

82: /cgn2_6/ptodata/1/pna/US6038_COMB.seq:*

83: /cgn2_6/ptodata/1/pna/US6039_COMB.seq:*

84: /cgn2_6/ptodata/1/pna/US6040_COMB.seq:*

85: /cgn2_6/ptodata/1/pna/US6041_COMB.seq:*

Pre. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query | Match | Length | DB | ID | Description |
|------------|-------|-------|-------|--------|-------------------|----|-------------------|
| 1 | 154 | 100.0 | 154 | 33 | US-09-887-194A-13 | | Sequence 13, App1 |
| c 2 | 154 | 100.0 | 154 | 33 | US-09-887-194A-13 | | Sequence 13, App1 |
| c 3 | 154 | 100.0 | 154 | 35 | US-09-934-900-25 | | Sequence 25, App1 |
| c 4 | 154 | 100.0 | 154 | 35 | US-09-934-900-25 | | Sequence 25, App1 |
| c 5 | 154 | 100.0 | 154 | 65 | US-60-213-961-13 | | Sequence 13, App1 |
| c 6 | 154 | 100.0 | 154 | 65 | US-60-213-961-13 | | Sequence 13, App1 |
| c 7 | 112 | 72.7 | 4974 | 34 | US-09-906-209-17 | | Sequence 17, App1 |
| c 8 | 112 | 72.7 | 4974 | 34 | US-09-906-209-17 | | Sequence 17, App1 |
| c 9 | 82.8 | 53.8 | 6611 | 35 | US-09-934-900-26 | | Sequence 26, App1 |
| c 10 | 82.8 | 53.8 | 6611 | 35 | US-09-934-900-26 | | Sequence 26, App1 |
| c 11 | 81 | 52.6 | 963 | 33 | US-09-887-194A-29 | | Sequence 29, App1 |
| c 12 | 81 | 52.6 | 963 | 33 | US-09-887-194A-29 | | Sequence 29, App1 |
| c 13 | 80 | 51.9 | 80 | 33 | US-09-887-194A-12 | | Sequence 12, App1 |
| c 14 | 80 | 51.9 | 80 | 33 | US-09-887-194A-12 | | Sequence 12, App1 |
| c 15 | 80 | 51.9 | 80 | 33 | US-09-934-900-24 | | Sequence 24, App1 |
| c 16 | 80 | 51.9 | 80 | 33 | US-09-934-900-24 | | Sequence 24, App1 |
| c 17 | 80 | 51.9 | 80 | 65 | US-60-213-961-12 | | Sequence 12, App1 |
| c 18 | 80 | 51.9 | 80 | 65 | US-60-213-961-12 | | Sequence 12, App1 |
| c 19 | 80 | 51.9 | 92 | 33 | US-09-887-194A-14 | | Sequence 14, App1 |
| c 20 | 80 | 51.9 | 92 | 33 | US-09-887-194A-14 | | Sequence 14, App1 |
| c 21 | 80 | 51.9 | 92 | 65 | US-60-213-961-14 | | Sequence 14, App1 |

RESULT 1
US-09-887-194a-13
; Sequence 13, Application US/098887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; APPLICANT: Stecca, Kevin L.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887-194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 13
Query Match 100.0%; Score 154; DB 33; Length 154;
Best Local Similarity 100.0%; Pred. No. 6.7e-25;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ALIGNMENTS

RESULT 1
US-09-887-194a-13
; Sequence 13, Application US/098887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; APPLICANT: Stecca, Kevin L.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887-194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 13
; LENGTH: 154
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
; OTHER INFORMATION: Region of pks133
US-09-887-194a-13
Query Match 100.0%; Score 154; DB 33; Length 154;
Best Local Similarity 100.0%; Pred. No. 6.7e-25;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 14
US-09-887-194a-13
; Sequence 14, Application US/098887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; APPLICANT: Stecca, Kevin L.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887-194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 13
Query Match 100.0%; Score 154; DB 33; Length 154;
Best Local Similarity 100.0%; Pred. No. 6.7e-25;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 14
US-09-887-194a-13
; Sequence 14, Application US/098887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; APPLICANT: Stecca, Kevin L.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887-194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 13
Query Match 100.0%; Score 154; DB 33; Length 154;
Best Local Similarity 100.0%; Pred. No. 6.7e-25;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 14
US-09-887-194a-13
; Sequence 14, Application US/098887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; APPLICANT: Stecca, Kevin L.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887-194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 13
Query Match 100.0%; Score 154; DB 33; Length 154;
Best Local Similarity 100.0%; Pred. No. 6.7e-25;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 2
US-09-887-194a-13/c

RESULT 1
US-09-887-194a-13
; Sequence 1, Application US/0934900
; GENERAL INFORMATION:
; APPLICANT: Booth, Russ
; APPLICANT: Chaloon, Rebecca E
; APPLICANT: Hitz, William D
; APPLICANT: Kinney, Anthony
; APPLICANT: Yada, Naren
; TITLE OF INVENTION: Nucleotide Sequences of a New Class of Diverged delta-9 Stere
; FILE REFERENCE: PB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/934,900
; CURRENT FILING DATE: 2001-08-22
; PRIORITY FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 25
; LENGTH: 154
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
; OTHER INFORMATION: Region of pks133
US-09-887-194a-13
Query Match 100.0%; Score 154; DB 35; Length 154;
Best Local Similarity 100.0%; Pred. No. 6.7e-25;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 1
US-09-887-194a-13
; Sequence 1, Application US/0934900
; GENERAL INFORMATION:
; APPLICANT: Booth, Russ
; APPLICANT: Chaloon, Rebecca E
; APPLICANT: Hitz, William D
; APPLICANT: Kinney, Anthony
; APPLICANT: Yada, Naren
; TITLE OF INVENTION: Nucleotide Sequences of a New Class of Diverged delta-9 Stere
; FILE REFERENCE: PB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/934,900
; CURRENT FILING DATE: 2001-08-22
; PRIORITY FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 25
; LENGTH: 154
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
; OTHER INFORMATION: Region of pks133
US-09-887-194a-13
Query Match 100.0%; Score 154; DB 35; Length 154;
Best Local Similarity 100.0%; Pred. No. 6.7e-25;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 1
US-09-887-194a-13
; Sequence 1, Application US/0934900
; GENERAL INFORMATION:
; APPLICANT: Booth, Russ
; APPLICANT: Chaloon, Rebecca E
; APPLICANT: Hitz, William D
; APPLICANT: Kinney, Anthony
; APPLICANT: Yada, Naren
; TITLE OF INVENTION: Nucleotide Sequences of a New Class of Diverged delta-9 Stere
; FILE REFERENCE: PB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/934,900
; CURRENT FILING DATE: 2001-08-22
; PRIORITY FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 25
; LENGTH: 154
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
; OTHER INFORMATION: Region of pks133
US-09-887-194a-13
Query Match 100.0%; Score 154; DB 35; Length 154;
Best Local Similarity 100.0%; Pred. No. 6.7e-25;
Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 CGGCCGAGCTGGTCATCTGGCTATCGTCAGTCGGCGGAGCTGGTCATCTGGCT 60
 Qy 61 CATCGTCAAGTCGGGGCGGACTCGAGATGAGCAAGATGAGCTGGCG 120
 Db 61 CATCGTCAAGTCGGGGCGGACTCGAGATGAGCAAGATGAGCTGGCG 120
 Qy 121 ACTGACGATGAGGGAGATGACCACTCGGGCG 154
 Db 121 ACTGACGATGAGGGAGATGACCACTCGGGCG 154

RESULT 4
 US-09-934-900-25/c
 ; GENERAL INFORMATION:
 ; APPLICANT: Booth, Russ
 ; APPLICANT: Canoona, Rebecca E
 ; APPLICANT: Hitz, William D
 ; APPLICANT: Kinney, Anthony
 ; APPLICANT: Yadav, Naren
 ; TITLE OF INVENTION: Nucleotide Sequences of a New Class of Diverged Delta-9 Stearoyl-
 ; FILE REFERENCE: ACP desaturase
 ; CURRENT APPLICATION NUMBER: US/09/934,900
 ; CURRENT FILING DATE: 2000-08-22
 ; PRIOR APPLICATION NUMBER: 60/2266996
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO: 25
 ; LENGTH: 154
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
 ; OTHER INFORMATION: region of pks133
 US-09-934-900-25

Query Match 100.0% Score 154; DB 35; Length 154;
 Best Local Similarity 100.0%; Pred. No. 6.7e-25;
 Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CGGCCGAGCTGGTCATCTGGCTATCGTCAGTCGGCGGAGCTGGCT 60
 Db 154 CGGCCGAGCTGGTCATCTGGCTATCGTCAGTCGGCGGAGCTGGCT 95
 Qy 61 CATCGTCAAGTCGGGGCGGACTCGAGATGAGCAAGATGAGCTGGCG 120
 Db 94 CATCGTCAAGTCGGGGCGGACTCGAGATGAGCAAGATGAGCTGGCG 35
 Qy 121 ACTGACGATGAGGGAGATGACCACTCGGGCG 154
 Db 34 ACTGACGATGAGGGAGATGACCACTCGGGCG 1

RESULT 5
 US-09-213-961-13
 ; Sequence 13, Application US/60213961
 ; GENERAL INFORMATION:
 ; APPLICANT: Glassman, Kimberly F.
 ; APPLICANT: Gordon-Kamm, William J.
 ; APPLICANT: Kinney, Anthony
 ; APPLICANT: Low, Keith S.
 ; APPLICANT: Nichols, Scott E.
 ; FILE REFERENCE: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
 ; CURRENT APPLICATION NUMBER: US/09/213,961
 ; CURRENT FILING DATE: 2000-06-23
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO: 13
 ; LENGTH: 154
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
 ; OTHER INFORMATION: region of pks133
 US-09-213-961-13

Query Match 100.0% Score 154; DB 65; Length 154;
 Best Local Similarity 100.0%; Pred. No. 6.7e-25;
 Matches 154; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CGGCCGAGCTGGTCATCTGGCTATCGTCAGTCGGCGGAGCTGGCT 60
 Db 154 CGGCCGAGCTGGTCATCTGGCTATCGTCAGTCGGCGGAGCTGGCT 95
 Qy 61 CATCGTCAAGTCGGGGCGGACTCGAGATGAGCAAGATGAGCTGGCG 120
 Db 94 CATCGTCAAGTCGGGGCGGACTCGAGATGAGCAAGATGAGCTGGCG 35
 Qy 121 ACTGACGATGAGGGAGATGACCACTCGGGCG 154
 Db 34 ACTGACGATGAGGGAGATGACCACTCGGGCG 1

RESULT 7
 US-09-906-209-17
 ; Sequence 17, Application US/09906209
 ; GENERAL INFORMATION:
 ; APPLICANT: Allen, Steve
 ; APPLICANT: Butler, Karla
 ; APPLICANT: Carlson, Tom

Db 54333 ACTCAGGGCCGCGGACTCGACCATGAGGAGATGAGCCAGCTCGGCGGACTCGGAGC 5374 Qy 1 CGGCCGGAGCTGGTCATCTCGTCATCGTCAGTCGGGGCCGAGCTGGTCATCTCGCT 60 Db 963 CGGCCGGAGCTGTGTCATCTCGTCATCGTCAGTCGGGGCCGAGCTGGTCATCTCGCT 904

Qy 1129 ATGAGCAGATGACCAAGCTCCGGCCG 154 Db 53733 ATGAGCAGATGACCAAGCTCCGGCCG 5348

RESULT 11
US-09-887-194A-29
; Sequence 29, Application US/09887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon-Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887,194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 29
; LENGTH: 963
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
; OTHER INFORMATION: region of pks149

Query Match 52.6%; Score 81; DB 33; Length 963;
Best Local Similarity 100.0%; Pred. No. 1.1e-08;
Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 74 GCGGCCGCGGACTCGACCATGAGGAGATGACCAAGCTCGGCGGACTCGAGATGAG 133 Db 883 GCGGCCGCGGACTCGACCATGAGGAGATGACCAAGCTCGGCGGACTCGAGATGAG 942

Qy 134 CGAGATGACCAAGCTCCGGCG 154 Db 943 CGAGATGACCAAGCTCCGGCG 963

RESULT 12
US-09-887-194A-29/C
; Sequence 29, Application US/09887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon-Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887,194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 29
; LENGTH: 963
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
; OTHER INFORMATION: region of pks149

Query Match 52.6%; Score 81; DB 33; Length 963;
Best Local Similarity 100.0%; Pred. No. 1.1e-08;
Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 13
US-09-887-194A-12
; Sequence 12, Application US/09887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon-Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887,194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 12
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
; OTHER INFORMATION: region of pks124

Query Match 51.9%; Score 80; DB 33; Length 80;
Best Local Similarity 100.0%; Pred. No. 2.3e-08;
Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 38 CGGCCGGAGCTGGTGTATCGCTCATCGTCAGTCGGGGCGGACTCGACATGAGC 97 Db 1 CGGCCGGAGCTGGTGTATCGCTCATCGTCAGTCGGGGCGGACTCGACATGAGC 60

Qy 98 GAGATGACCAAGCTCGGGCG 117 Db 61 GAGATGACCAAGCTCGGGCG 80

RESULT 14
US-09-887-194A-12/C
; Sequence 12, Application US/09887194A
; GENERAL INFORMATION:
; APPLICANT: Glassman, Kimberly F.
; APPLICANT: Gordon-Kamm, William J.
; APPLICANT: Kinney, Anthony
; APPLICANT: Lowe, Keith S.
; APPLICANT: Nichols, Scott E.
; TITLE OF INVENTION: RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION
; FILE REFERENCE: BB1449 US NA
; CURRENT APPLICATION NUMBER: US/09/887,194A
; CURRENT FILING DATE: 2002-03-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Microsoft Office 97
; SEQ ID NO: 12
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
; OTHER INFORMATION: region of pks106 and pks124

Query Match 51.9%; Score 80; DB 33; Length 80;
Best Local Similarity 100.0%; Pred. No. 2.3e-08;
Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 38 CGGCCGGAGCTGGTGTATCGCTCATCGTCAGTCGGGGCGGACTCGACATGAGC 97 Db 1 CGGCCGGAGCTGGTGTATCGCTCATCGTCAGTCGGGGCGGACTCGACATGAGC 60

Qy 98 GAGATGACCAAGCTCGGGCG 117 Db 61 GAGATGACCAAGCTCGGGCG 80

Query Match 51.9%; Score 80; DB 33; Length 80;
 Best Local Similarity 100.0%; Pred. No. 2.3e-08;
 Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ;

Qy 38 CGGCCGAGCTGGTCATCTGGTCATCGTCGACTCGAGATGAGC 97
 Db 80 CGGCCGAGCTGGTCATCTGGTCATCGTCGACTCGAGATGAGC 21

Qy 98 GAGATGACCAAGCAGCGCG 117
 Db 20 GAGATGACCAAGCAGCGCG 1

RESULT 15
 US-09-934-900-24
 ; Sequence 24 Application US/09334900
 ; GENERAL INFORMATION:
 ; APPLICANT: Booth, Russ
 ; APPLICANT: Cahoon, Rebecca E
 ; APPLICANT: Hitz, William D
 ; APPLICANT: Kinney, Anthony
 ; APPLICANT: Yadav, Naren
 ; TITLE OF INVENTION: Nucleotide Sequences of a New Class of Diverged Delta-9 Stearoyl-
 ; CURRENT APPLICATION NUMBER: US/09/934,900
 ; CURRENT FILING DATE: 2001-08-22
 ; PRIORITY NUMBER: 60/226996
 ; PRIORITY FILING DATE: 2000-08-22
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO: 24
 ; LENGTH: 80
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: ELVISLIVES complementary
 ; OTHER INFORMATION: region of pks106 and pks124
 US-09-934-900-24

Query Match 51.9%; Score 80; DB 35; Length 80;
 Best Local Similarity 100.0%; Pred. No. 2.3e-08;
 Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ;

Qy 38 CGGCCGAGCTGGTCATCTGGTCATCGTCGACTCGAGATGAGC 97
 Db 1 CGGCCGAGCTGGTCATCTGGTCATCGTCGACTCGAGATGAGC 60

Qy 98 GAGATGACCAAGCAGCGCG 117
 Db 61 GAGATGACCAAGCAGCGCG 80

Search completed: November 19, 2002, 06:28:11
 Job time : 3532 secs

| Result No. | Score | Query | Match | Length | DB ID | Description |
|------------|-------|-------|-------|--------|-----------------|--------------------|
| 1 | 34.8 | 22.6 | 1681 | 6 | US-10-271-889-7 | Sequence 7, Appli |
| c | 2 | 34.8 | 22.6 | 1681 | 6 | US-10-271-889-7 |
| c | 3 | 33 | 21.4 | 345 | 5 | Sequence 7, Appli |
| c | 4 | 33 | 21.4 | 345 | 5 | Sequence 8640, Ap |
| c | 5 | 31.4 | 20.4 | 1707 | 6 | Sequence 8640, Ap |
| c | 6 | 31.4 | 20.4 | 1707 | 6 | Sequence 8640, Ap |
| c | 7 | 31.4 | 20.4 | 1707 | 6 | Sequence 8640, Ap |
| c | 8 | 31.4 | 20.4 | 53500 | 6 | Sequence 8640, Ap |
| c | 9 | 30.8 | 20.0 | 53500 | 6 | Sequence 8640, Ap |
| c | 10 | 30.8 | 20.0 | 2787 | 6 | Sequence 8640, Ap |
| c | 11 | 28.4 | 18.4 | 3284 | 6 | Sequence 8640, Ap |
| c | 12 | 28.4 | 18.4 | 3284 | 6 | Sequence 8640, Ap |
| c | 13 | 28.4 | 18.4 | 11220 | 6 | Sequence 8640, Ap |
| c | 14 | 28.4 | 18.4 | 11220 | 6 | Sequence 8640, Ap |
| c | 15 | 28.4 | 18.4 | 36778 | 6 | Sequence 8640, Ap |
| c | 16 | 28.4 | 18.4 | 36778 | 6 | Sequence 8640, Ap |
| c | 17 | 27.4 | 17.8 | 1030 | 6 | Sequence 1427, Ap |
| c | 18 | 27.4 | 17.8 | 1030 | 6 | Sequence 1427, Ap |
| c | 19 | 27.4 | 17.8 | 1419 | 6 | Sequence 1427, Ap |
| c | 20 | 27.4 | 17.8 | 1419 | 6 | Sequence 1427, Ap |
| c | 21 | 27.4 | 17.8 | 2327 | 1 | Sequence 66, Appli |
| c | 22 | 27.4 | 17.8 | 2327 | 1 | Sequence 66, Appli |
| c | 23 | 27.2 | 17.7 | 658 | 6 | Sequence 181, App |
| c | 24 | 27.2 | 17.7 | 658 | 6 | Sequence 181, App |
| c | 25 | 27.2 | 17.7 | 795 | 6 | Sequence 57, Appli |
| c | 26 | 27.2 | 17.7 | 795 | 6 | Sequence 57, Appli |

Db 262 AAATGACCACTGGTCGGC 246

RESULT 5

US-10-267-255-68

; Sequence 68, Application US/10267255

; GENERAL INFORMATION:

; APPLICANT: Sherman, D

; APPLICANT: Mao, Y

; APPLICANT: Vargolu, M

; APPLICANT: He, M

; APPLICANT: Sheldon, P

; TITLE OF INVENTION: Mitomycin biosynthetic gene cluster

; FILE REFERENCE: 600.456US1

; CURRENT APPLICATION NUMBER: US/10/267,255

; CURRENT FILING DATE: 2002-10-09

; PRIOR APPLICATION NUMBER: US 09/266,965

; PRIOR FILING DATE: 1999-03-12

; PRIOR APPLICATION NUMBER: US 08/624,447

; PRIOR FILING DATE: 1996-08-19

; PRIOR APPLICATION NUMBER: PCT/US94/11279

; PRIOR FILING DATE: 1994-10-06

; PRIOR APPLICATION NUMBER: US 08/133,963-

; PRIOR FILING DATE: 1993-10-07

; NUMBER OF SEQ ID NOS: 145

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO: 68

; LENGTH: 1707

; TYPE: DNA

; ORGANISM: Streptomyces lavendulae

US-10-267-255-68

Query Match 20.4%; Score 31.4%; DB 6; Length 1707;

Best Local Similarity 56.2%; Pred. No. 2.1;

Matches 59; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

Qy 46 GCTGSTMCACTCGCTCATGTCGACTGGGGCCGCGACTCGAGATGAGATGAC 105

Db 665 GCGGTTCTCATGTCGATGCCGATCCGAACGGGGTTCGCGGGTATGGCTAA 725

Qy 106 CAGCTCCGGGCCGCACTCGCAGATGAGGAGATGACCACTCTCG 150

Db 726 CACCCGGGCCGCGTGGCGGGTGGACTAGAACCGGGCCCG 770

RESULT 6

US-10-267-255-68/c

; Sequence 68, Application US/10267255

; GENERAL INFORMATION:

; APPLICANT: Sherman, D

; APPLICANT: Mao, Y

; APPLICANT: Vargolu, M

; APPLICANT: He, M

; APPLICANT: Sheldon, P

; TITLE OF INVENTION: Mitomycin biosynthetic gene cluster

; FILE REFERENCE: 600.456US1

; CURRENT APPLICATION NUMBER: US/10/267,255

; CURRENT FILING DATE: 2002-10-09

; PRIOR APPLICATION NUMBER: US 09/266,965

; PRIOR FILING DATE: 1999-03-12

; PRIOR APPLICATION NUMBER: US 08/624,447

; PRIOR FILING DATE: 1996-08-19

; PRIOR APPLICATION NUMBER: PCT/US94/11279

; PRIOR FILING DATE: 1994-10-06

; PRIOR APPLICATION NUMBER: US 08/133,963-

; PRIOR FILING DATE: 1993-10-07

; NUMBER OF SEQ ID NOS: 145

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO: 68

; LENGTH: 1707

; TYPE: DNA

; ORGANISM: Streptomyces lavendulae

US-10-267-255-68

Query Match 20.4%; Score 31.4%; DB 6; Length 5350;

Best Local Similarity 56.2%; Pred. No. 3.9;

Matches 59; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

Qy 46 GCTGSTMCACTCGCTCATGTCGACTGGGGCCGCGACTCGAGATGAGGATGAC 105

Db 46289 GCGGTTCTCATGTCGATGCCGATCCGAACGGGGTTCGCGGGGTTATGGCTAA 46348

Qy 106 CAGCTCCGGGCCGCACTCGCAGATGAGGAGATGACCACTCTCG 150

Db 46349 CACCCGGGCCGCGTGGCGGGTGGACTAACCGGGCCCG 46393

RESULT 8

US-10-267-255-7-6/c

; Sequence 76, Application US/10267255

; GENERAL INFORMATION:

; APPLICANT: Sherman, D

; APPLICANT: Mao, Y

; APPLICANT: Vargolu, M

; APPLICANT: He, M

; APPLICANT: Sheldon, P

; TITLE OF INVENTION: Mitomycin biosynthetic gene cluster

; FILE REFERENCE: 600.456US1

; CURRENT APPLICATION NUMBER: US/10/267,255

; CURRENT FILING DATE: 2002-10-09

; PRIOR APPLICATION NUMBER: US 09/266,965

; PRIOR FILING DATE: 1999-03-12

; PRIOR APPLICATION NUMBER: US 08/624,447

; PRIOR FILING DATE: 1996-08-19

; PRIOR APPLICATION NUMBER: PCT/US94/11279

; PRIOR FILING DATE: 1994-10-06

; PRIOR APPLICATION NUMBER: US 08/133,963-

; PRIOR FILING DATE: 1993-10-07

; NUMBER OF SEQ ID NOS: 145

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO: 68

; LENGTH: 1707

; TYPE: DNA

; ORGANISM: Streptomyces lavendulae

US-10-267-255-68


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; PRIORITY FILING DATE: 1998-06-26
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 36778
; TYPE: DNA
; ORGANISM: Streptomyces venezuelae
; US-10-271-889-48

          Query Match      18.4%;  Score 28.4;  DB 6;  Length 36778;
          Best Local Similarity 52.5%; Pred. No. 23;
          Matches 62;  Conservative 0;  Mismatches 56;  Indels 0;  Gaps 0

          Qy   37 GCGGCCGAGCTGGTCACTCGCTCATGTCAGTCGGCCAGCTGAGATGAG 96
          Db  26247 GCTGGCCGCGTCAGCGGGTCACCCGGATCCGGCTGGCGCGGTCAA 26306

          Qy   97 CGAGATGACCGCTGGCCGCCGACCTCGACGATGACCGAGATGACCG 154
          Db  26307 CCAGGGCAAGGGCAAGGGCGAGGGCGAGGGCGACCTGGGGCG 26364

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Search completed: November 19, 2002, 05:29:53
Total time: 104 sec

| Result | Query No. | Score | Match Length | DB ID | Description |
|--------|-----------|-------|--------------|-------|-------------|
| 1 | 36.6 | 23.8 | 175 | 12 | BF945949 |
| c 2 | 36.6 | 23.8 | 175 | 12 | BF945949 |
| c 3 | 36.2 | 23.5 | 627 | 17 | CNS03W2P |
| c 4 | 36.2 | 23.5 | 627 | 17 | CNS03W2P |
| c 5 | 36.2 | 23.5 | 787 | 17 | CNS03W2P |
| c 6 | 36.2 | 23.5 | 787 | 17 | CNS03W2P |

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OM nucleic - nucleic search, using sw model

Run on: November 19, 2002, 05:26:44 ; Search time 2117 Seconds

(without alignments)

1178.132 Million cell updates/sec

Title: US-09-887-194A-13

Perfect score: 154
Sequence: 1 cggccggaggctggtcataatcctc.....9agatgaccaggctccggccg 154

Scoring table: IDENTITY NUC Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

RESULT 1

LOCUS BF945949

DEFINITION CM0-NN1155-271000-628-a09

ACCESSION NN1155

VERSION BF945949

KEYWORDS GI:123633224

SOURCE EST

ORGANISM Homo sapiens

Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 175)

AUTHORS Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,

Nagai, M.A., da Silva, W.J.R., Zaito, M.A., Bordin, S., Costa, F.F.,

Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H.,

Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare

, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and

Simpson, A.J.

SEQUENCE tags

TITLE Shotgun sequencing of the human transcriptome with ORF expressed

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

JOURNAL

MEDLINE

COMMENT 20202663

Contact: Simpson, A.J.G.

Laboratory of Cancer Genetics

Ludwig Institute for Cancer Research

Rua Prof. Antonio Prudente 109, 4 andar,

01509-010, Sao Paulo-SP,

Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

8

Result No.

Query

Match

Length

DB ID

Description

BASE COUNT /note: "Genoscope sequence ID : C08G041DA03LP1-end : T7" 139 a 168 c 210 g 105 t 5 Others

Db 354 GACCATGAGCGAG 342

| | | | | | | |
|------------|---|-----------------------------|-----------|----------|--------|---------------|
| RESULT 4 | CNS30BY/c | CNS30BY | 627 bp | DNA | linear | GSS 17-MAY-24 |
| LOCUS | Tetraodon nigroviridis | genomic | Survey | sequence | T7 | end of clone |
| DEFINITION | 041B8 of library G | from Tetraodon nigroviridis | genomic | survey | | |
| SEQUENCE | | | | | | |
| ACCESSION | AL253156 | | | | | |
| VERSION | AL253156.1 | GI:7974168 | | | | |
| KEYWORDS | GSS; genome | survey | sequence. | | | |
| SOURCE | Tetraodon nigroviridis | | | | | |
| ORGANISM | Tetraodon nigroviridis | | | | | |
| DEFINITION | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes; Tetraodontidae; Tetraodon. | | | | | |
| SEQUENCE | 1 (bases 1 to 627) | | | | | |
| REFERENCE | Roest-Crollius, H., Jallion, O., Dasilva, C., Bouneau, L., Fisher, C., Bernat, A., Fizames, C., Wincker, P., Brottier, P., Quétie, F., Saurin, W. and Weissenbach, J. | | | | | |
| AUTHORS | | | | | | |
| TITLE | Tetraodon nigroviridis genome wide analysis using Tetraodon nigroviridis DNA sequence | | | | | |

| | |
|-----------|---|
| REFERENCE | 2 (bases 1 to 627) |
| AUTHORS | Bonneau,L., Billault,A., Ouetier,F., Saurin,W., Bernot,A. and Weissenbach,J. |
| TITLE | Characterization and repeat analysis of the compact genome of the freshwater Pufferfish Tetraodon nigroviridis |
| JOURNAL | Unpublished |
| AUTHORS | 3 (bases 1 to 627) |
| TITLE | Genoscope. |
| JOURNAL | Direct Submission |
| COMMENT | Submitted (12-APR-2000) This sequence is a single read and was generated as part of a large scale clone-end sequencing project of the Tetraodon nigroviridis genome. |

FEATURES SOURCE http://www.genoscope.cns.fr/~rebadou/Location/Qualifiers 1. .627

/sex="Mating type A"
 /tissue_type="Inferiorized sexual tissue"
 /dev_stage="Unfertilized sexual stage"
 /lab_host="E. coli".

/note="Vector: pBluescript SK (-); Site_1: EcoRI; Site_2:
 XhoI; Westergaard's medium (Nitrogen limiting). Floating
 mycelial mats grown at 25C for 36 hours. cDNA
 directionally cloned into pBluescript SK(-) using the
 Uni-ZAP XR vector system (Stratagene, La Jolla, CA)."

BASE COUNT 94 a 226 c 138 g 131 t 1 others
 ORIGIN

Query Match 23.0%; Score 35.4%; DB 9; Length 590;
 Best Local Similarity 57.3%; Pred. No. 82;
 Matches 63; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

Qy 18 CTCGCTCATCGTGAATCGCGGAGCTCATCGTCAGTCGGG 77
 Db 81 CTCGCTCATGCCAGAGGCCACAGCCCTCTCGCTCAGGGCCCG 140

Qy 78 CGCCCGACTCGACGATGAGGAGATGACCACTCCGGCGACTCGAC 127
 Db 141 CGCGGGTTACCACTACAGTCATCACTCAAGCCCCAGCGGACAGTGGCC 190

RESULT 14
 Locus AI399069 590 bp mRNA linear EST 08-FEB-1999
 DEFINITION NCW01B11T3 Westergaards Neurospora crassa cDNA clone W01B11 5',
 Sordariaceae; Neurospora
 mRNAs sequence.

ACCESSION AI399069
 KEYWORDS EST.
 SOURCE Neurospora crassa.
 ORGANISM Neurospora crassa; Ascomycota; Pezizomycotina; Sordariomycetes;
 Sordariales; Sordariaceae; Neurospora.

REFERENCE 1 (bases 1 to 590)
 AUTHORS Nelson, M.A., Kang, S., Braun, E.L., Crawford, M.E., Dolan, P.L.,
 Leonard, P.M., Mitchell, J., Armijo, A.M., Bean, L., Blueyes, E.,
 Cushing, T., Everett, A., Fiehary, M., Gorman, M., Judson, K., Miller, R.,
 Ortega, J., Pavlova, I., Pereira, J., Toldisco, S., Tordillo, R.,
 Valentine, J., Wells, A., Werner-Washburne, M., Yazzie, S., and Natvig
 D.O.

TITLE Expressed sequences from conidial, mycelial, and sexual stages of
 Neurospora crassa
 JOURNAL Fungal Genet. Biol. 21, 348-363 (1997)
 MEDLINE 97435549
 COMMENT Contact: Natvig, D.O./Nelson, M.A.
 Department of Biology
 University of New Mexico
 Caster Hall, Albuquerque, NM 87131, USA
 Tel: 505 277 3611
 Fax: 505 277 0304
 Email: ngbiology.unm.edu.

FEATURES source
 1. .590
 /organism="Neurospora crassa"
 /strain="74-OR23-IV A (FGSC 2489)"
 /db_xref="Taxon:5141"
 /clone="W01B11".
 /clone.lib="Westergaards".
 /sex="Mating type A".
 /dev_stage="Unfertilized sexual stage".
 /lab_host="E. coli".

/note="Vector: pBluescript SK (-); Site_1: EcoRI; Site_2:
 XhoI; Westergaard's medium (Nitrogen limiting). Floating
 mycelial mats grown at 25C for 36 hours. cDNA
 directionally cloned into pBluescript SK(-) using the
 Uni-ZAP XR vector system (Stratagene, La Jolla, CA)."

BASE COUNT 94 a 226 c 138 g 131 t 1 others
 ORIGIN

Query Match 23.0%; Score 35.4%; DB 9; Length 590;
 Best Local Similarity 57.3%; Pred. No. 82;
 Matches 63; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

Qy 28 GTGAGATGGCCGGAGCTGGTCATCTCGCTCATCGACTGCGACTC 87
 Db 190 GGCCACATGCCGCTGGCTAGTATGAGACTGGTANTGGTAAACCGGGCGGCCT 131

Qy 88 GACGATGAGGAGATGACCACTCCGGCGACTGACGATGAGGGAG 137
 Db 130 GGAGACGAGCAGGAGGAGCTGGCGGGCTCTGGCGATGAGCGAG 81

RESULT 15
 Locus BF483067 441 bp mRNA linear EST 06-DEC-2000
 DEFINITION WHE2314_D05_G10ZS wheat pre-anthesis spike cDNA library Triticum aestivum cDNA clone WHE2314_D05_G10, mRNA sequence.

ACCESSION BF483067
 VERSION BF483067.1
 KEYWORDS EST.
 SOURCE bread wheat.
 ORGANISM Triticum aestivum
 Eukaryota: Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae; Triticeae; Triticum.

REFERENCE 1 (bases 1 to 441)
 AUTHORS Anderson, O.D., Chao, S., Choi, D.W., Close, T.J., Fenton, R.D., Han, P.S., Hsia, C.C., Kang, Y., Lazo, G.R., Miller, R., Rausch, C.J., Seaton, C.L., and Tong, J.C.

TITLE The structure and function of the expressed portion of the wheat genomes - Pre-anthesis spike cDNA library
 Unpublished (2000)
 JOURNAL CONTACT: Olin Anderson
 US Department of Agriculture, Agriculture Research Service, Pacific
 West Area, Western Regional Research Center
 800 Buchanan Street, Albany, CA 94710, USA
 Tel: 510555773
 Fax: 51055575818
 Email: oanderson@pw.usda.gov
 Sequence have been trimmed to remove vector sequence and low quality sequence with phred score less than 20
 Seq primer: Stratagene SK primer.
 LOCATION/Qualifiers
 1. .441
 /tissue_type="Triticum aestivum"
 /cultivar="Chinese Spring"
 /db_xref="taxon:4565"
 /clone="WHE2314_D05_G10"
 /clone.lib="Wheat pre-anthesis spike cDNA library"
 /dev_stage="Adult plant"
 /lab_host="E. coli SOLR"
 SITE:1: EcoRI; Site:2: XbaI; Plants were grown in the greenhouse. Whole spike with awns trimmed, white, green and yellow anthers were collected and total RNA, and poly(A) RNA were prepared, a cDNA library was made, and the cDNA clones were in vivo excised to give pBluescript phagemids in the TJ Close lab (Choi, Close, Fenton) at the University of California, Riverside. Plasmid DNA preparations and DNA sequencing were performed in the OD Anderson lab (all other authors)."

BASE COUNT 54 a 168 c 144 g 75 t
 ORIGIN

Query Match 22.7%; Score 35; DB 12; Length 441;
 Best Local Similarity 63.9%; Pred. No. 97;
 Matches 53; Conservative 0; Mismatches 30; Indels 0; Gaps 0;

Qy 27 CGTCGAGTCGGCCGGAGCTGGTCATCTCGACTGAGCTGGCGCCGACT 86

| | | | |
|----|----|---|-----|
| Db | 20 | CGTCGAGGGGGCGCCGGCGTCCCTCCCTCCTCTCCCTCGGGGCGTCGGGGCTT | 79 |
| Qy | 87 | CGACCGATGAGCGAGATGACCGAGC | 109 |
| | | | |
| Db | 80 | CGGCCAGGGCGACGGCAACGGC | 102 |
| | | | |

Search completed: November 19, 2002, 07:49:42
Job time : 2111 secs

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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

| SUMMARIES | | | | | | | |
|------------|-------|-------------|--------|--------|-------------|-----------|--------------|
| Result No. | Score | Query Match | Length | DB ID | Description | | |
| 1 | 154 | 100.0 | 154 | 6 | AX367128 | Sequence | |
| c | 154 | 100.0 | 154 | 6 | AX367128 | Sequence | |
| c | 154 | 100.0 | 154 | 6 | AX392336 | Sequence | |
| c | 154 | 100.0 | 154 | 6 | AX392336 | Sequence | |
| c | 112 | 72.7 | 4974 | 6 | AX353724 | Sequence | |
| c | 7 | 82.8 | 53.8 | 6611 | AX392337 | Sequence | |
| c | 8 | 82.8 | 53.8 | 6611 | AX392337 | Sequence | |
| c | 9 | 81 | 52.6 | 963 | AX367144 | Sequence | |
| c | 10 | 81 | 52.6 | 963 | AX367144 | Sequence | |
| c | 11 | 80 | 51.9 | 80 | AX367127 | Sequence | |
| c | 12 | 80 | 51.9 | 80 | AX367127 | Sequence | |
| c | 13 | 80 | 51.9 | 80 | AX392335 | Sequence | |
| c | 14 | 80 | 51.9 | 80 | AX392335 | Sequence | |
| c | 15 | 80 | 51.9 | 92 | 6 | AX367129 | Sequence |
| c | 16 | 80 | 51.9 | 92 | 6 | AX367129 | Sequence |
| c | 17 | 45.8 | 29.7 | 1717 | 6 | AX367139 | Sequence |
| c | 18 | 45.8 | 29.7 | 1717 | 6 | AX367139 | Sequence |
| c | 19 | 38.2 | 24.8 | 10348 | 1 | AE004846 | Pseudomon |
| c | 20 | 38.2 | 24.8 | 10348 | 1 | AE004846 | Pseudomon |
| c | 21 | 36.4 | 23.6 | 115036 | 2 | AC107207 | Oryza sat |
| c | 22 | 36.4 | 23.6 | 115036 | 2 | AC107207 | Oryza sat |
| c | 23 | 36.2 | 23.5 | 8973 | 1 | AY081837 | Bradyrhiz |
| c | 24 | 36.2 | 23.5 | 8973 | 1 | AY081837 | Bradyrhiz |
| c | 25 | 36.2 | 23.5 | 123169 | 9 | AC008771 | Homo sapi |
| c | 26 | 36.2 | 23.5 | 123169 | 9 | AC008771 | Homo sapi |
| c | 27 | 36.2 | 23.5 | 126054 | 9 | AC018764 | Homo sapi |
| c | 28 | 36.2 | 23.5 | 126054 | 9 | AC018764 | Homo sapi |
| c | 29 | 36 | 23.4 | 131603 | 2 | AC097280 | Oryza sat |
| c | 30 | 36 | 23.4 | 131603 | 2 | AC097280 | Oryza sat |
| c | 31 | 36 | 23.4 | 19050 | 1 | AL646059 | Ralstonia |
| c | 32 | 36 | 23.4 | 19050 | 1 | AL646059 | Ralstonia |
| c | 33 | 35.8 | 23.2 | 1102 | 8 | X70876 | H. vulgare m |
| c | 34 | 35.8 | 23.2 | 1102 | 8 | HVMYB2 | |
| c | 35 | 35.8 | 23.2 | 22115 | 1 | SCC22 | |
| c | 36 | 35.8 | 23.2 | 22115 | 1 | SCC22 | |
| c | 37 | 35.8 | 23.2 | 106161 | 2 | AC120984 | Oryza sat |
| c | 38 | 35.8 | 23.2 | 106161 | 2 | AC120984 | Oryza sat |
| c | 39 | 35.8 | 23.2 | 180186 | 8 | AP003104 | Oryza sat |
| c | 40 | 35.8 | 23.2 | 180186 | 8 | AP003104 | Oryza sat |
| c | 41 | 35.6 | 23.1 | 102529 | 2 | AP004747 | Oryza sat |
| c | 42 | 35.6 | 23.1 | 102529 | 2 | AP004747 | Oryza sat |
| c | 43 | 35.6 | 23.1 | 340900 | 1 | SME591791 | Sinorhizob |
| c | 44 | 35.6 | 23.1 | 340900 | 1 | SME591791 | Sinorhizob |
| c | 45 | 35 | 22.7 | 1020 | 9 | AB078417 | Homo sapi |

ALIGNMENTS

| | | | | | | |
|------------|-------------------------|-------------|--------|-----|--------|-----------------|
| RESULT | 1 | AX367128 | 154 bp | DNA | linear | PAT 16-FEB-2002 |
| LOCUS | Sequence 13 from Patent | W00200904. | | | | |
| DEFINITION | | | | | | |
| ACCESSION | AX367128 | | | | | |
| VERSION | AX367128.1 | GI:18855329 | | | | |
| KEYWORDS | | | | | | |
| SOURCE | | | | | | |
| ORGANISM | | | | | | |
| REFERENCE | | | | | | |
| AUTHORS | | | | | | |
| TITLE | | | | | | |
| JOURNAL | | | | | | |

1 Glassman, K.F., Gordon-Kamm, W.J., Kinney, A.J., Lowe, K., Stecca, K.L. and Nichols, S.E. Recombinant constructs and their use in reducing gene expression Patent: WO 0200904-A 13 03-JAN-2002;

Pred. No. is the number of results predicted by chance to have a

Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Query Match 51.9%; Score 80; DB 6; Length 80;
 Best Local Similarity 100.0%; Pred. No. 6e-06; Mismatches 0; Indels 0; Gaps 0;

Qy 38 CGGGGGAGCTGGTCATCGCTGACTCGAGTCGACGATGAGC 97
 Db 80 CGGGGGAGCTGGTCATCGCTGACTCGAGTCGACGATGAGC 21

Qy 98 GAGATGACCAAGCTGGCG 117
 Db 20 GAGATGACCAAGCTGGCG 1

RESULT 13
 LOCUS AX392335 Sequence 24 from Patent WO0216565. 80 bp DNA linear PAT 23-MAR-2002
 DEFINITION AX392335 VERSION AX392335.1 GI:19700688
 KEYWORDS SOURCE
 ORGANISM synthetic construct.
 artificial sequences.
 REFERENCE 1
 AUTHORS Booth,J.R., Cahoon,R.E., Hitz,W.D., Kinney,A.J. and Yadav,N.S.,
 TITLE Nucleotide sequences of a new class of diverged delta-9
 stearoyl-acp desaturase genes
 JOURNAL Patent: WO 0216565-A 24 28-FEB-2002;
 E. I. du Pont de Nemours and Company (US)
 FEATURES Location/Qualifiers
 source 1. 80
 /organism="synthetic construct"
 /db_xref="taxon:32630"
 /note="ELVISLIVES complementary region of pKS106 and
 pKS124."
 BASE COUNT 12 a 28 c 28 g 12 t
 ORIGIN
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 Best Local Similarity 100.0%; Pred. No. 6e-06; Mismatches 0; Indels 0; Gaps 0; Query Match 51.9%; Score 80; DB 6; Length 92;
 Best Local Similarity 100.0%; Pred. No. 5.9e-06; Mismatches 0; Indels 0; Gaps 0;
 Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Query Match 51.9%; Score 80; DB 6; Length 92;
 Best Local Similarity 100.0%; Pred. No. 5.9e-06; Mismatches 0; Indels 0; Gaps 0;

Qy 38 CGGGGGAGCTGGTCATCGCTGACTCGAGTCGACGATGAGC 97
 Db 1 CGGGGGAGCTGGTCATCGCTGACTCGAGTCGACGATGAGC 60

Qy 98 GAGATGACCAAGCTGGCG 117
 Db 61 GAGATGACCAAGCTGGCG 80

RESULT 14
 LOCUS AX392335_c Sequence 24 from Patent WO0216565. 80 bp DNA linear PAT 23-MAR-2002
 DEFINITION AX392335 VERSION AX392335.1 GI:19700688
 KEYWORDS SOURCE
 ORGANISM synthetic construct.
 artificial sequences.
 REFERENCE 1
 AUTHORS Booth,J.R., Cahoon,R.E., Hitz,W.D., Kinney,A.J. and Yadav,N.S.,
 TITLE Nucleotide sequences of a new class of diverged delta-9
 stearoyl-acp desaturase genes
 JOURNAL Patent: WO 0216565-A 24 28-FEB-2002;
 E. I. du Pont de Nemours and Company (US)
 FEATURES Location/Qualifiers
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 /db_xref="taxon:32630"
 /note="ELVISLIVES complementary region of pKS106 and
 pKS124."
 BASE COUNT 12 a 28 c 28 g 12 t
 ORIGIN
 Search completed: November 19, 2002, 07:14:04
 Job time : 2740 secs